

## A new maturity model for requirements engineering process: an overview

### Abstract

It is widely acknowledged that Requirements Engineering (RE) has an important implication for the overall success of software or system development projects. As more and more organizations consider RE as the principal problem areas in the projects, improving RE process therefore appears critical for future business success. Moreover, nowadays there are evidences that support improving RE process maturity can contribute to improved business performance. There exist generic Software Process Improvement (SPI) standards, specialised RE process improvement models as well as guidance and advices on RE. However, they suffer from various issues that limit their adoption by organizations that are interested to assess and improve their RE process capability. Therefore, the research presented in this paper proposes a new RE process improvement model. The model is built by adapting and expanding the structure of the continuous representation of the formal maturity framework Capability Maturity Model Integration for Development (CMMI-DEV) developed by the Software Engineering Institute (SEI) through three rounds of development and validation stages, which involved RE and CMMI expert panel in the software industry. This paper aims to provide an overview on what, why and how we build the maturity model for RE. The intention is to provide a foundation for future development in the area of RE process improvement.